

Appl. No. : 10/764,012  
Filed : January 23, 2004

### REMARKS

By way of summary, Applicant has amended Claims 1, 5, 44 and 45. Claims 10-27 have been canceled. Applicant has added new claims 48 through 61. Therefore, Claims 1-9 and 28-61 are presented herein for further consideration.

#### Correction of the Rigid and Rubbery Polyols

Applicant has amended the specification to correct the rigid and rubbery labels attached to the polyols based on their respective molecular weights. This amendment is supported by EXAMPLES 1-4 on pages 16-17 and 19 of the specification:

EXAMPLE 1 describes that a polymer composition was prepared with “rigid polyol (MULTRANOL 4035, Bayer)” and “rubbery polyol (ARCOL LG-56, Bayer).” As is shown in Exhibit A attached hereto, MULTRANOL 4035 as produced by Bayer has a molecular weight of 440 g/mol. As is shown in Exhibit B, attached hereto, ARCOL LG-56 as produced by Bayer has a molecular weight of 3000 g/mol. Thus, the rubbery polyol (ARCOL LG-56, Bayer) has a greater molecular weight than the rigid polyol (MULTRANOL 4035, Bayer).

EXAMPLES 2 -3 describe that polymer compositions were prepared with “rigid polyol (Bayer 4035)” and “flexible polyol (Bayer 3900).” EXAMPLE 4 also describes that a polymer composition is prepared with “rigid polyol (MULTRANOL 4035)” and “flexible polyol (MULTRANOL 3900).” Thus, EXAMPLES 2-4 refer to Bayer’s MULTRANOL 4035 as the rigid polyol and Bayer’s MULTRANOL 3900 as the flexible polyol. As is indicated above, MULTRANOL has a molecular weight of 440 g/mol. As is shown in Exhibit C attached hereto, MULTRANOL 3900 as produced by Bayer has a molecular weight of 4800 g/mol. Thus, the rubbery polyol MULTRANOL 3900 has a greater molecular weight than the rigid polyol, MULTRANOL 4035.

As such, all of the EXAMPLES describe that the rubbery polyol has a greater molecular weight than the rigid polyol. Thus, the amendment to the specification does not add new matter.

Accordingly, Applicant is also amending Claims 1, 44 and 45 to accurately reflect the rigid or flexible nature of polyols, and the polyurethanes formed therefrom. Thus, Applicant has amended Claims 1, 44 and 45 to recite that the first polyol having a first molecular weight and a second polyol having a second molecular weight “greater” than the first molecular weight forms

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the polyurethane, which is less rigid than a hypothetical polyurethane that would be formed by the reaction of the first polyol and the one or more monomeric or oligomeric poly- or diisocyanates in the absence of the second polyol. In other words, the second polyol is more flexible, attributed in part to its higher molecular weight, relative to the first polyol and therefore forms the polyurethane that is less rigid than the polyurethane that is formed in the absence of the more flexible, higher molecular weight polyol. Applicant believes that this is also supported by the EXAMPLES as indicated above.

Support for New Claims 48-61

Applicant has added new Claims 48-61:

New Claim 48 is supported by the specification at originally filed Claim 7 and page 12, lines 22-23, and page 13, lines 7-9.

New Claims 49 & 52 are supported by the specification at originally filed Claim 6 and page 12, lines 9-11.

New Claims 50-51 and 56-57 are supported by the specification at page 10, line 20 and the table on page 21.

New Claims 53 & 55 are supported by the specification at the table on page 21.

New Claim 54 is supported by the specification at the table on page 19 and the table on page 21.

New Claim 58 is supported by the specification at originally filed Claim 2.

New Claims 59-61 are supported by the specification at page 3, lines 20-21 and page 11, lines 20-21.

35 U.S.C. § 112 Written Description Rejection of Claim 5

The Examiner rejected Claim 5 on the basis of 35 U.S.C. § 112 for lack of written description for the terms "greater than" and "less than." Applicant has amended Claim 5 to reflect Claim 5 as originally filed. Therefore, Applicant respectfully requests that the Examiner withdraw this rejection.

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35 U.S.C. § 112 Indefiniteness Rejection of Claims 1-9 and 28-47

In paragraph 6 of the Office Action, the Examiner rejected Claims 1-9 and 28-47 under 35 U.S.C. § 112 as being indefinite for failing to particularly point out and distinctly claim the subject matter which Applicant regards as the invention. Specifically, the Examiner believes that the term “less rigid” was not used in a clear manner. In the telephonic interview with the Examiner, the Examiner stated that the claim needed to be made more clear as to the relationship between the “less rigid” polyurethane that is produced through the reaction of the isocyanate, first polyol, and second polyol, and the more rigid polyurethane that is produced through the reaction of the isocyanate and the first polyol in the absence of the second polyol. The Examiner agreed that the relative degree of rigidity between the two polyurethanes was a definite claim limitation and indicated that the claim simply needed to be made clearer. Applicant has amended independent Claims 1, 44 and 45 and believes that the amendments clarify the relationship between the polyurethane and the second polyurethane (the hypothetical polyurethane), thereby rendering the claims definite. Therefore, Applicant respectfully requests that the Examiner withdraw this rejection and pass Claims 1, 44 and 45 to allowance.

Claims 2-9, 28-43, and 47-58 depend from Claims 1, 44, or 45 and further define the invention defined in the independent claims. Claims 2-9, 28-43, and 47-58 are also allowable for at least the reasons set forth above with respect to Claims 1, 44 and 45. Therefore, Applicant respectfully requests that the Examiner pass all of the pending claims to allowance.


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Please charge any additional fees, including any fees for additional extension of time, or credit overpayment to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: 29 Nov. 2006

By:   
Karoline A. Delaney  
Registration No. 44,058  
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## **Exhibit A**

# MATERIAL SAFETY DATA SHEET



Bayer MaterialScience

**Bayer MaterialScience LLC**  
Product Safety & Regulatory Affairs  
100 Bayer Road  
Pittsburgh, PA 15205-9741  
USA

## TRANSPORTATION EMERGENCY

CALL CHEMTREC: (800) 424-9300  
INTERNATIONAL: (703) 527-3887

## NON-TRANSPORTATION

Bayer Emergency Phone: (412) 923-1800  
Bayer Information Phone: (800) 662-2927

### 1. Product and Company Identification

**Product Name:** MULTRANOL 4035  
**Material Number:** 5327717  
**Chemical Family:** Polyether Polyol  
**Chemical Name:** Poly (Oxyalkylene) Polymer  
**CAS-No.:** 9049-71-2

### 2. Hazards Identification

#### Emergency Overview

**Color:** Colorless **Form:** liquid **Odor:** slight.  
Product poses little or no hazard if spilled. Use cold water spray to cool fire-exposed containers to minimize the risk of rupture. Irritating gases/fumes may be given off during burning or thermal decomposition.

#### Potential Health Effects

**Primary Routes of Entry:** Skin Contact, Eye Contact

**Medical Conditions Aggravated by Exposure:** None known.

#### HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE

##### General Effects of Exposure

##### Acute Effects of Exposure

**For Product: MULTRANOL 4035**

Not expected to cause any adverse acute health effects.

##### Chronic Effects of Exposure

**For Product: MULTRANOL 4035**

Not expected to cause any adverse chronic health effects.

##### Carcinogenicity:

No Carcinogenic substances as defined by IARC, NTP and/or OSHA

Material Name: MULTRANOL 4035

Article Number: 5327717

### 3. Composition/Information on Ingredients

#### Hazardous Components

This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

### 4. First Aid Measures

#### Eye Contact

In case of contact, flush eyes with plenty of lukewarm water. Get medical attention if irritation develops.

#### Skin Contact

In case of skin contact, wash affected areas with soap and water. Thoroughly clean shoes before reuse. Wash clothing before reuse. Get medical attention if irritation develops and persists.

#### Inhalation

If inhaled, remove to fresh air. If breathing is difficult, give oxygen. Get medical attention if irritation develops.

#### Ingestion

If ingested, do not induce vomiting unless directed to do so by medical personnel. Get medical attention.

### 5. Fire-Fighting Measures

**Suitable Extinguishing Media:** carbon dioxide (CO<sub>2</sub>), dry chemical, foam, water spray for large fires.

#### Special Fire Fighting Procedures

Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes. Use cold water spray to cool fire-exposed containers to minimize risk of rupture. Toxic and irritating gases/fumes may be given off during burning or thermal decomposition.

### 6. Accidental release measures

#### Spill and Leak Procedures

Dike or dam spilled material and control further spillage, if possible. Cover spill with inert material (e. g., dry sand or earth) and collect for proper disposal. Collect and place in appropriately marked sealable containers for disposal. Wash spill area with soap and water.

### 7. Handling and Storage

#### Storage Temperature:

minimum: 15 °C (59 °F)

Material Name: MULTRANOL 4035

Article Number: 5327717

**maximum:** 50 °C (122 °F)

**Storage Period**  
36 Months

**Handling/Storage Precautions**

Handle in accordance with good industrial hygiene and safety practices. Wash thoroughly after handling. Keep container closed when not in use. Material is hygroscopic and may absorb small amounts of atmospheric moisture. If contamination with isocyanates is suspected, do not reseal containers. Avoid inhalation of vapour or mist.

**8. Exposure Controls / Personal Protection**

Country specific exposure limits have not been established or are not applicable

**Industrial Hygiene/Ventilation Measures**

Under normal conditions of use, special ventilation is not required.

**Respiratory Protection**

None required under normal conditions of use., NIOSH approved air-supplied respirator during die cleaning, high temperature processing or when thermal decomposition is suspected.

**Hand Protection**

Permeation resistant gloves., Butyl rubber gloves., Nitrile rubber gloves., Neoprene gloves

**Eye Protection**

safety glasses with side-shields.

**Skin and body protection**

No special skin protection requirements during normal handling and use.

**Additional Protective Measures**

Employees should wash their hands and face before eating, drinking, or using tobacco products. Educate and train employees in the safe use and handling of this product.

**9. Physical and chemical properties**

<b>Form:</b>	liquid
<b>Color:</b>	Colorless
<b>Odor:</b>	slight
<b>pH:</b>	Not Established
<b>Freezing Point:</b>	Not Established
<b>Boiling Point/Range:</b>	Not Established
<b>Flash Point:</b>	157 °C (314.6 °F)
<b>Vapor Pressure:</b>	Not Established
<b>Specific Gravity:</b>	1.05 @ 25 °C (77 °F)
<b>Solubility in Water:</b>	completely soluble
<b>Viscosity, Dynamic:</b>	500 - 700 mPa.s @ 25 °C (77 °F)
<b>Bulk Density:</b>	8.85 lb/gal
<b>Molecular Weight:</b>	440
<b>Hygroscopicity:</b>	hygroscopic



## 10. Stability and Reactivity

### Hazardous Reactions

Hazardous polymerization does not occur.

### Stability

Stable

### Materials to avoid

oxidizing agents, Isocyanates

### Hazardous decomposition products

By Fire and Thermal Decomposition: Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), dense black smoke, Other undetermined compounds

## 11. Toxicological Information

No information available.

## 12. Ecological Information

No information available.

## 13. Disposal considerations

### Waste Disposal Method

Waste disposal should be in accordance with existing federal, state and local environmental control laws.

### Empty Container Precautions

Recondition or dispose of empty container in accordance with governmental regulations. Empty containers retain product residue; observe all precautions for product. Do not heat or cut container with electric or gas torch.

## 14. Transportation information

### Land transport (DOT)

Non-Regulated

### Sea transport (IMDG)

Non-Regulated

### Air transport (ICAO/IATA)

Non-Regulated

## 15. Regulatory Information

### United States Federal Regulations

Material Name: MULTRANOL 4035

Article Number: 5327717

**OSHA Hazcom Standard Rating:** Non-Hazardous

**US. Toxic Substances Control Act:** Listed on the TSCA Inventory.

**US. EPA CERCLA Hazardous Substances (40 CFR 302):**

**Components**

None

**SARA Section 311/312 Hazard Categories:**

Non-hazardous under Section 311/312

**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A):**

**Components**

None

**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required:**

**Components**

None

**US. EPA Resource Conservation and Recovery Act (RCRA) Composite List of Hazardous Wastes and Appendix VIII Hazardous Constituents (40 CFR 261):**

If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

**State Right-To-Know Information**

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

**Massachusetts, New Jersey or Pennsylvania Right to Know Substance Lists:**

**Weight %**

99 - 100%

**Components**

Polyether Polyol

**CAS-No.**

9049-71-2

**California Prop. 65:**

To the best of our knowledge, this product does not contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm.

**16. Other Information**

**NFPA 704M Rating**

Health	0
Flammability	1
Reactivity	0
Other	

0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

**HMIS Rating**

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<b>Health</b>	0
<b>Flammability</b>	1
<b>Physical Hazard</b>	0

0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

\* = Chronic Health Hazard

The method of hazard communication for Bayer MaterialScience LLC is comprised of Product Labels and Material Safety Data Sheets. HMIS and NFPA ratings are provided by Bayer MaterialScience LLC as a customer service.

Contact Person: Product Safety Department  
 Telephone: (412) 777-2835  
 MSDS Number: R300041  
 Version Date: 11/08/2005  
 Report Version: 1.5

This information is furnished without warranty, express or implied. This information is believed to be accurate to the best knowledge of Bayer MaterialScience LLC. The information in this MSDS relates only to the specific material designated herein. Bayer MaterialScience LLC assumes no legal responsibility for use of or reliance upon the information in this MSDS.

Material Name: MULTRANOL 4035

Article Number: 5327717

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## **Exhibit B**



# ARCOL<sup>®</sup> LG-56

## *Polyether Polyol*

CAS No. 25791-96-2

Product Code: KLLG56

### Description

Arcol LG-56 polyether polyol is a 3,000-molecular-weight polypropylene oxide-based triol. The terminal end-groups are predominantly secondary hydroxyls and have a relatively low reactivity. It is compatible with most polyether polyols and can be blended with other diols, triols and polymer polyols to achieve desirable modifications of product properties. This polyol is acidified with a low level of phosphoric acid, making it suitable for use in isocyanate-terminated prepolymers.

Arcol LG-56 polyol is typically used in the production of solid and microcellular urethane elastomers, seamless and sports flooring, caulks, sealants and crude oil de-emulsifiers. As with any product, the use of Arcol LG-56 polyol in a given application must be tested (including but not limited to field testing) in advance by the user to determine suitability.

### Product Specifications

Property	Value
Hydroxyl Number, mg KOH/g	56.2-59.0
Water, wt. % (max)	0.05
Acid Number, mg KOH/g (max)	0.05
Color, Pt-Co (max)	50

### Typical Properties\*

Property	Value
Appearance	Clear, viscous liquid
Specific Gravity at 20°C	1.01
Viscosity at 25°C, cps	480
Flash Point, PMCC, °C	175
Bulk Density, lb/gal	8.43

### Storage

Arcol LG-56 polyol is slightly hygroscopic and may absorb water. Containers should be kept tightly closed and protected from contamination with moisture and foreign materials, which can adversely affect product quality.

This polyol can become quite viscous at low temperatures. For ease of handling, storage temperatures between ambient room temperature and 60°C (140°F) are recommended.

### Health and Safety Information

Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling Arcol LG-56 polyol. Before working with this product, you must read and become familiar with the available information on its hazards, proper use, and handling. This cannot be overemphasized. Information is available in several forms, e.g., material safety data sheets and product labels. Consult your Bayer MaterialScience representative or contact Bayer's Product Safety and Regulatory Affairs Department in Pittsburgh, Pa.

\* These items are provided as general information only. They are approximate values and are not part of the product specifications.

Note: The information contained in this bulletin is current as of September 2003. Please contact Bayer MaterialScience to determine whether this publication has been revised.

### **Bayer MaterialScience LLC**

100 Bayer Road • Pittsburgh, PA 15205-9741 • Phone: 1-800-662-2927 • [www.BayerMaterialScienceNAFTA.com](http://www.BayerMaterialScienceNAFTA.com)

The manner in which you use and the purpose to which you put and utilize our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations are beyond our control. Therefore, it is imperative that you test our products, technical assistance and information to determine to your own satisfaction whether they are suitable for your intended uses and applications. This application-specific analysis must at least include testing to determine suitability from a technical as well as health, safety, and environmental standpoint. Such testing has not necessarily been done by us. Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale. All information and technical assistance is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed that you assume and hereby expressly release us from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance, and information. Any statement or recommendation not contained herein is unauthorized and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with patents covering any material or its use. No license is implied or in fact granted under the claims of any patent.

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#### **Sales Offices**

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17320 Redhill Avenue, Suite 175, Irvine, CA 92614-5660 • 1-949-833-2351 • Fax: 1-949-752-1306  
1000 Route 9 North, Suite 103, Woodbridge, NJ 07095-1200 • 1-732-726-8988 • Fax: 1-732-726-1672  
2401 Walton Boulevard, Auburn Hills, MI 48326-1957 • Phone: 1-248-475-7700 • Fax: 1-248-475-7701

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**Filed** : January 23, 2004

## **Exhibit C**

# MATERIAL SAFETY DATA SHEET



Bayer MaterialScience

**Bayer MaterialScience LLC**  
Product Safety & Regulatory Affairs  
100 Bayer Road  
Pittsburgh, PA 15205-9741  
USA

## TRANSPORTATION EMERGENCY

CALL CHEMTREC: (800) 424-9300  
INTERNATIONAL: (703) 527-3887

## NON-TRANSPORTATION

Bayer Emergency Phone: (412) 923-1800  
Bayer Information Phone: (800) 662-2927

### 1. Product and Company Identification

**Product Name:** MULTRANOL 3900  
**Material Number:** 4911806  
**Chemical Family:** Polyether Polyol  
**Chemical Name:** Poly (Oxyalkylene) Polymer  
**CAS-No.:** 9082-00-2

### 2. Hazards Identification

#### Emergency Overview

**Color:** Colorless **Form:** liquid **Odor:** slight.  
Product poses little or no hazard if spilled. Use cold water spray to cool fire-exposed containers to minimize the risk of rupture. Irritating gases/fumes may be given off during burning or thermal decomposition.

#### Potential Health Effects

**Primary Routes of Entry:** Skin Contact, Eye Contact

**Medical Conditions Aggravated by Exposure:** None known.

#### HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE

##### General Effects of Exposure

##### Acute Effects of Exposure

##### For Product: MULTRANOL 3900

Not expected to cause any adverse acute health effects.

##### Chronic Effects of Exposure

##### For Product: MULTRANOL 3900

Not expected to cause any adverse chronic health effects.

##### Carcinogenicity:

No Carcinogenic substances as defined by IARC, NTP and/or OSHA

Material Name: MULTRANOL 3900

Article Number: 4911806



### 3. Composition/Information on Ingredients

#### Hazardous Components

This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

### 4. First Aid Measures

#### Eye Contact

In case of contact, flush eyes with plenty of lukewarm water. Get medical attention if irritation develops.

#### Skin Contact

In case of skin contact, wash affected areas with soap and water. Thoroughly clean shoes before reuse. Wash clothing before reuse. Get medical attention if irritation develops and persists.

#### Inhalation

If inhaled, remove to fresh air. If breathing is difficult, give oxygen. Get medical attention if irritation develops.

#### Ingestion

If ingested, do not induce vomiting unless directed to do so by medical personnel. Get medical attention.

### 5. Fire-Fighting Measures

**Suitable Extinguishing Media:** carbon dioxide (CO<sub>2</sub>), dry chemical, foam, water spray for large fires.

#### Special Fire Fighting Procedures

Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes. Use cold water spray to cool fire-exposed containers to minimize risk of rupture. Toxic and irritating gases/fumes may be given off during burning or thermal decomposition.

### 6. Accidental release measures

#### Spill and Leak Procedures

Dike or dam spilled material and control further spillage, if possible. Cover spill with inert material (e. g., dry sand or earth) and collect for proper disposal. Collect and place in appropriately marked sealable containers for disposal. Wash spill area with soap and water.

### 7. Handling and Storage

**Storage Temperature:**  
**maximum:**

50 °C (122 °F)

Material Name: MULTRANOL 3900

Article Number: 4911806

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**Storage Period**  
36 Months

**Handling/Storage Precautions**

Handle in accordance with good industrial hygiene and safety practices. Wash thoroughly after handling. Keep container closed when not in use. Material is hygroscopic and may absorb small amounts of atmospheric moisture. If contamination with isocyanates is suspected, do not reseal containers. Avoid inhalation of vapour or mist.

**Further Info on Storage Conditions**

Material can be stored safely at ambient temperatures.

**8. Exposure Controls / Personal Protection**

Country specific exposure limits have not been established or are not applicable

**Industrial Hygiene/Ventilation Measures**

Under normal conditions of use, special ventilation is not required.

**Respiratory Protection**

None required under normal conditions of use., NIOSH approved air-supplied respirator during die cleaning, high temperature processing or when thermal decomposition is suspected.

**Hand Protection**

Permeation resistant gloves., Butyl rubber gloves., Nitrile rubber gloves., Neoprene gloves

**Eye Protection**

safety glasses with side-shields.

**Skin and body protection**

No special skin protection requirements during normal handling and use.

**Additional Protective Measures**

Employees should wash their hands and face before eating, drinking, or using tobacco products. Educate and train employees in the safe use and handling of this product.

**9. Physical and chemical properties**

<b>Form:</b>	liquid
<b>Color:</b>	Colorless
<b>Odor:</b>	slight
<b>pH:</b>	6 - 7.5
<b>Freezing Point:</b>	Not Established
<b>Boiling Point/Range:</b>	Not Established
<b>Flash Point:</b>	184 °C (363.2 °F) (Pensky-Martens Closed Cup (ASTM D-93))
<b>Vapor Pressure:</b>	Not Established
<b>Specific Gravity:</b>	1.02 @ 25 °C (77 °F)
<b>Solubility in Water:</b>	completely soluble
<b>Viscosity, Dynamic:</b>	780 - 890 mPa.s @ 25 °C (77 °F)
<b>Bulk Density:</b>	8.56 lb/gal
<b>Molecular Weight:</b>	4,800
<b>Hygroscopicity:</b>	hygroscopic

Material Name: MULTRANOL 3900

Article Number: 4911806

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## 10. Stability and Reactivity

### Hazardous Reactions

Hazardous polymerization does not occur.

### Stability

Stable

### Materials to avoid

oxidizing agents, Isocyanates

### Hazardous decomposition products

By Fire and Thermal Decomposition: Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), dense black smoke, Other undetermined compounds

## 11. Toxicological Information

No information available.

## 12. Ecological Information

No information available.

## 13. Disposal considerations

### Waste Disposal Method

Waste disposal should be in accordance with existing federal, state and local environmental control laws.

### Empty Container Precautions

Recondition or dispose of empty container in accordance with governmental regulations. Empty containers retain product residue; observe all precautions for product. Do not heat or cut container with electric or gas torch.

## 14. Transportation information

### Land transport (DOT)

Non-Regulated

### Sea transport (IMDG)

Non-Regulated

### Air transport (ICAO/IATA)

Non-Regulated

## 15. Regulatory Information

### United States Federal Regulations

Material Name: MULTRANOL 3900

Article Number: 4911806

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OSHA Hazcom Standard Rating: Non-Hazardous

US. Toxic Substances Control Act: Listed on the TSCA Inventory.

US. EPA CERCLA Hazardous Substances (40 CFR 302):

Components

None

SARA Section 311/312 Hazard Categories:

Non-hazardous under Section 311/312

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III  
Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A):

Components

None

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III  
Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required:

Components

None

US. EPA Resource Conservation and Recovery Act (RCRA) Composite List of Hazardous Wastes  
and Appendix VIII Hazardous Constituents (40 CFR 261):

If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

State Right-To-Know Information

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

Massachusetts, New Jersey or Pennsylvania Right to Know Substance Lists:

Weight %

99 - 100%

Components

Polyether Polyol

CAS-No.

9082-00-2

Weight %

>=1%

Components

Polyether Polyol

CAS-No.

9082-00-2

California Prop. 65:

To the best of our knowledge, this product does not contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm.

**16. Other Information**

NFPA 704M Rating

Health	0
Flammability	1
Reactivity	0
Other	

Material Name: MULTRANOL 3900

Article Number: 4911806

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0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

**HMIS Rating**

Health	0
Flammability	1
Physical Hazard	0

0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

\* = Chronic Health Hazard

The method of hazard communication for Bayer MaterialScience LLC is comprised of Product Labels and Material Safety Data Sheets. HMIS and NFPA ratings are provided by Bayer MaterialScience LLC as a customer service.

Contact Person: Product Safety Department  
Telephone: (412) 777-2835  
MSDS Number: R300053  
Version Date: 01/24/2006  
Report Version: 1.8

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